

# CSS Services Activities Coordination Meeting

March 2006

Mark Kaletka, Kevin Hill, Ray  
Pasetes

# Agenda

- CSS Services Overview – Mark Kaletka
- Anti-Spam Update – Kevin Hill
- Server Consolidation Project (NAS)  
Update – Ray Pasetes

# General Overview of Plans for FY06

- SAN/NAS
- Site Backups
- Email
- Calendar
- Site Antivirus
- Web
- NGOP
- Other Central Services/Servers
- Windows Domain
- Security & Security Infrastructure
- Configuration Management & Inventory Control
- FNALU
- Software Products
- HelpDesk

# Covered in Other Meetings

- Fermigrid
- Databases
- Information Management
- Desktop support
- CMS support
- ILC support
- Other direct support to Div/Sec/Exp's
- Etc, etc, etc.

# SAN/NAS

- See Ray's talk

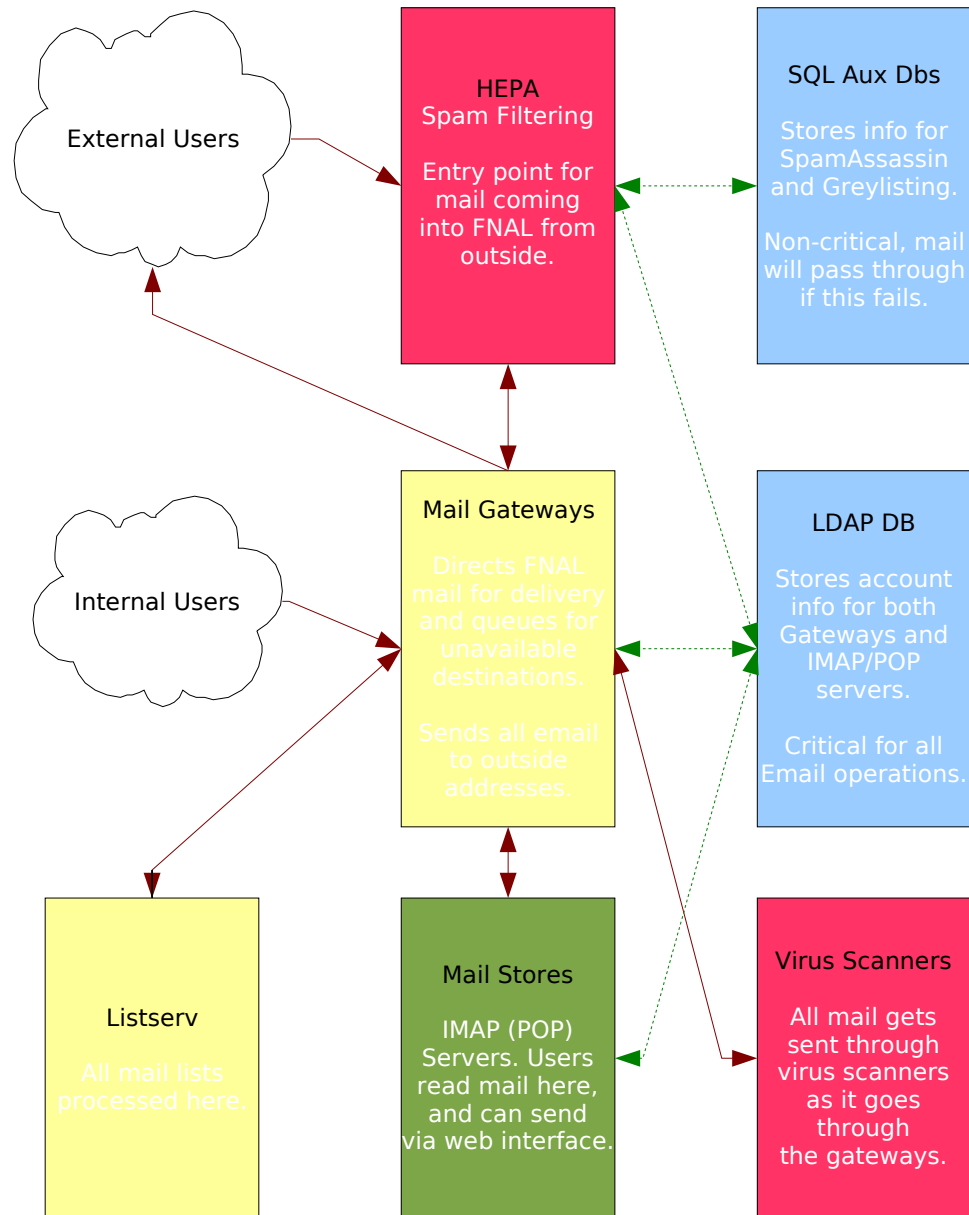
# Site Backups

- In production:
  - Spectralogic T920 robot, 8 SuperAIT tape drives, TiBS software, 2 Sun backup servers, disk cache on SAN
  - Partitioned & jointly administered by CSI, SCS
- 385 systems, 12.5 TB “fulls”, more [metrics](#)
- Plan to increase tape slot capacity this FY
- More [info](#)

# Email

- Improved spam filtering
  - Greylisting
  - “Backscatter”
  - Reduce relay potential
  - (Above covered in Kevin’s presentation)
  - Ongoing warfare
- LDAP Consolidation
  - One redundant LDAP database for authentication
  - Single sign-on for IMAP, MM, Jabber, etc, etc, etc.
- Listserv
  - Start looking at potential replacements
- IMAP Servers
  - IMAP “farm” alias
- [Metrics](#)

# FNAL – Email Network



RED – Email Traffic

GREEN – Database Traffic



# Calendar

- Meeting Maker
  - Recent major upgrade
  - MM Outlook Connector
  - LDAP consolidation
  - Server-side notifications (paging, etc.)
  - MM development tools integrated with Information Management projects (leave calendar, etc.)
- WebEvent/InDiCo
  - Researching enterprise-wide scheduling tools (calendaring, meeting organization, etc.)
  - InDiCo being prototyped (chosen by ILC)

# Site Antivirus

- Responsible for central antivirus infrastructure for whole Lab
  - Windows (implemented)
  - Mac (being implemented)
  - Linux (being researched)
- See your baseline configuration doc for requirements (in flux)
- Design note for Windows [here](#)

# Web

- Support central web servers
  - Load balanced, redundant, secure (as we can make them)
  - Apache & IIS
  - [Urchin](#) monitoring – enormous detail available
    - Requires a password
- Security an ongoing effort
  - Especially vulnerable to user-installed CGI's, etc.

# Collaboration Tools

- Email
  - (See above)
- Calendar
  - (See above)
- Instant Messaging (Jabber)
  - Supports Windows/Linux/Macintosh
  - Communication kept secure
  - Account information integrated with LDAP
  - Investigating Kerberos support
  - More info [here](#)

# NGOP

- See briefing [here](#)

# Configuration/Inventory Management

- Driven by DOE requirements
  - Required in baseline configs
- SMS is the chosen framework
  - [Extensive](#) deployment of SMS for Windows
  - Implementing OCSInventoryNG as Open Source “SMS for Linux” (tie into SMS db)
  - Testing Vintella commercial add-on for SMS for Mac OSX
  - Detailed [reports](#) available (requires account)

# Windows Domain

- Domain Controllers
  - Authentication “major application” for Windows
  - Responsible for support Lab-wide, incl. OS & HW upgrades
- AD Controls NT4 domain migration
  - Finally happening during shutdown (we think)
- Chair [Windows Policy Committee](#)

# Central Servers

- Windows Virtual Server
- Print Server
  - Windows
  - Unix
- Plone
  - Part of Information Management now..
- MS-SQL, mySQL, PostGRES
- Software Repositories
  - Cdcvs
  - Fnkits
  - Pseekits
  - Bldcluster
- License Servers
- Etc, etc, etc.



# FNALU

- This cluster offers a well known, safe and supported computing resource for the FermiLab population locally and remotely
- Services
  - MySql, Mafia, Ansys, License's, Email, LSF batch, Code development, Experiment computing, General purpose computing, Mambo
- Experiments and Users
  - Minerva, Coupp, Selex, E871, Minos, CMS, E875, E881, E761, E781, Helpdesk, OSG, ...

# Security Work

- Security Infrastructure
  - Kerberos & Windows Authentication
  - Central Patching (Windows, Linux, Mac)
  - Site Antivirus
- Configuration Management
  - SMS, etc.
- Baseline Configuration Documents
- Central Service Security Plans
- Windows Authentication Security Plans
- Tools (mainly from Information Management)
  - Certificates
  - FCIRT workflow
  - Risk analysis
  - Sysadmindb
  - Etc.
- Incident Response
  - FCIRT, GCSC, Sysadmins, etc.

# Helpdesk

- Front tier support for CD services
  - Of all kinds
  - Accounts (passwords, etc.) are a big load
- New role with OSG support centers
- Close integration w/ Desktop Support
- Plan incremental improvements in:
  - User interface
  - Automated paging
  - Off-hours call service
  - HelpDesk workflow
- Remedy application support for PPD, AD, ES&H, others

# Software Products

- Scientific Linux
  - Builds for 32 bit SL from “upstream vendor” source
    - CERN builds 64 bit SL
  - Customizations for Fermi SLF & workgroups
  - Distribution infrastructure
  - Participate in “community support”
    - Increasing participation from outside
- The Written Word (TWW)
  - Common Open Source packages for Sun, SGI
    - Linux included in SLF
  - Commercial (low-cost) support
  - Documentation [here](#) (old)
- UPS/UPD
  - No active development but still in use
  - Future? (For some other meeting...)

*Fin*